Claims:

1. (currently amended) A compound of the formula I:

wherein R1 is C1-C4 branched or straight chain alkyl;+

R2 is H;

R³ is H; C₁-C₆ branched or straight chain alkyl; C₂-C₄ alkenyl; <u>or</u> C₂-C₄ alkynyl;

R4 is H; C1-C6 branched or straight chain alkyl; or C2-C4 alkenyl;

R5 is SO2NR10R11;

R8 is H; or C1-C6 branched or straight chain alkyl;

R¹⁰ and R¹¹ are each independently H₂ or C₁-C₁₂ branched or straight chain alkyl; C₂-C₆ halogenated branched or straight chain alkyl; C₂-C₆ alkenvl; C₂-C₆ alkenvl or C₃-C₆ evcloalkyl; or R¹⁰ and R¹¹ together with their attached nitrogen atom form a pyrrolinyl, pyrrolinone group, piperidyl, morpholinyl, or 4-N(R⁸)-piperazinyl; which are optionally substituted with C₄-C₄ branched or straight chain alkyl, NR¹⁴R¹⁵ phenyl, the said groups optionally substituted with OH₃-CN, CO₂R⁸, C₁-C₄ branched or straight chain alkyl, or C₁-C₃ alkoxyl or linked together with another substituted phenyl by a carbonyl group.

R14 and R15 are each independently H: C1-C4 branched or straight chain alkyl:

or their pharmaceutically acceptable salts.

2-3. (Cancelled)

- (Previously amended) The compound according to claim 1, wherein the compound is selected from a group consisting of:
- 2-[2-ethoxyl-5-(4-ethylpiperazinyl-1-sulfonyl)phenyl]-5-methyl-7n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof:
- 2-[2-methoxyl-5-(4-ethylpiperazinyl-1-sulfonyl)phenyl]-5-methyl-7-n-propyl-3,7-dihydropyrrol o[2,3-d]pyrimidin-4-one, and the hydrochloride thereof:
- 2-[2-n-propoxy-5-(4-ethylpiperazinyl-1-sulfonyl)phenyl]-5-methyl-7-n-propyl-3,7-dihydropyrrol o[2,3-d]pyrimidin-4-one, and the hydrochloride thereof;
- 2-[2-allyloxy-5-(4-ethylpiperazinyl-1-sulfonyl)phenyl]-5-methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, and the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;
- 2-[2-n-propoxy-5-(4-ethylpiperazinyl-1-sulfonyl)phenyl]-5-ethyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;
- 2-[2-ethoxyl-5-(4-methylpiperazinyl-1-sulfonyl)phenyl]-5-methyl-7-n-propyl-3,7-dihydropyrrol o[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;
- n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof:

2-[2-ethoxyl-5-(4-methylpiperazinyl-1-sulfonyl)phenyl]-5-ethyl-7-

- 2-[2-ethoxyl-5-(4-ethoxycarbonylpiperazinyl-1-sulfonyl)phenyl]-5methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride,
 dihydrochloride and other possible hydrochloride thereof;
- 2-{2-ethoxyl-5-[4-(2-hydroxyethyl)piperazinyl-1-sulfonyl] phenyl}-5-methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof:
- 2-[2-ethoxyl-5-(pyrrolidinyl-1-sulfonyl)phenyl]-5-methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;
- 2-{2-ethoxyl-5-[3-(2-oxy-pyrrolidin-1-yl)-n-propylamino-N-sulfonyl]phenyl}-5-methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d] pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;
- 2-{2-ethoxyl-5-[2-(pyrrolidin-1-yl)-ethylamino-N-sulfonyl]phenyl}-5-methyl-7-n-propyl-3,7-dih ydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;
- 2-[2-ethoxyl-5-(morpholino-4-sulfonyl)phenyl]-5-methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]p yrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof:
- 2-{2-ethoxyl-5-[3-(morpholin-4-yl)-n-propylamino-N-sulfonyl]
 phenyl}-5-methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4one, the
 monohydrochloride, dihydrochloride and other possible hydrochloride thereof;
- 2-{2-ethoxyl-5-[2-(morpholin-4-yl)-ethylamino-N-sulfonyl]phenyl}-5-methyl-7-n-propyl-3,7-di hydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;
- $\hbox{2-[2-ethoxyl-5-(2,6-dimethylmorpholino-N-sulfonyl)phenyl]-5-}\\$

methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;

2-[2-ethoxyl-5-(1-benzylpiperidyl-4-aminosulfonyl)phenyl]-5methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride,
dihydrochloride and other possible hydrochloride thereof;

2-{2-ethoxyl-5-[2-(piperidin-1-yl)ethylamino-1-sulfonyl]phenyl}-5methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride,
dihydrochloride and other possible hydrochloride thereof;

2-[2-ethoxyl-5-(4-benzylpiperazinyl-1-sulfonyl)phenyl]-5-methyl-7-n-propyl-3,7-dihydropyrrolo [2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;

2-[2-ethoxyl-5-(4-phenylpiperazinyl-1-sulfonyl)phenyl]-5-methyl-7-n-propyl-3,7-dihydropyrrolo [2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;

2-[2-ethoxyl-5-(piperazinyl-1-sulfonyl)phenyl]-5-methyl-7-npropyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;

2-[2-ethoxyl-5-(4-benzo[1,3]dioxol—5-yl-methylpiperazinyl-1-sulfonyl)phenyl]-5-methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d] pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;

2-{2-ethoxyl-5-[4-(3-phenyl-n-propan-1-yl)piperidyl-1-sulfonyl] phenyl}-5-methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;

2-[2-ethoxyl-5-(n-propylamino-1-sulfonyl)phenyl]-5-methyl-7-npropyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one,the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;

- 2-{2-ethoxyl-5-[N,N-di(2-hydroxyethyl)aminosulfonyl]phenyl}-5methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof:
- 2-{2-ethoxyl-5-[N-(2-hydroxyethyl)-N-methylaminosulfonyl]phenyl}-5-methyl-7-n-propyl-3,7dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;
- 2-{2-ethoxyl-5-[N-(2-hydroxyethyl)-N-ethylaminosulfonyl]phenyl}-5-methyl-7-n-propyl-3,7-di hydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;
- 2-{2-ethoxyl-5-[N-(2-hydroxyethyl)-N-n-butylaminosulfonyl]phenyl}-5-methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;
- 2-[2-ethoxyl-5-(p-ethoxylcarboxylphenylamino-N-sulfonyl)phenyl]-5-methyl-7-n-propyl-3,7-dih ydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;
- 2-[2-ethoxyl-5-(o-benzoylphenylamino-N-sulfonyl)phenyl]-5-methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof.
- 2-[2-ethoxyl-5-(N2-acethydrazido-N1-sulfonyl)phenyl]-5-methyl-7n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride and dihydrochloride and other possible hydrochloride thereof;
- 2-[2-ethoxyl-5-(2-dimethylaminoethylamino-N-sulfonyl)phenyl]-5methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride,
 dihydrochloride and other possible hydrochloride thereof;

2-[2-ethoxyl-5-(4-ethylpiperazinyl-1-sulfonyl)phenyl]-5-ethyl-7-npropyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof;

2-[2-ethoxyl-5-(4-ethylpiperazinyl-1-sulfonyl)phenyl]-5morpholinomethyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4monohydrochloride, dihydrochloride and other possible hydrochloride thereof:

2-[2-ethoxyl-5-(4-ethylpiperazinyl-1-sulfonyl)phenyl]-5-(pyrimidinyl-2)-methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof; and

2-[2-ethoxyl-5-(4-ethylpiperazinyl-1-sulfonyl)phenyl]-5-methyl-7allyl-3,7-dihydropyrrolo[2,3-d]pyrimidin-4-one, the monohydrochloride, dihydrochloride and other possible hydrochloride thereof.

5. (canceled)

(previously amended) A pharmaceutical composition containing the compound according to claims 1 or 4 as an active ingredient and a pharmaceutically acceptable excipient.

(previously amended) A veterinary drug composition containing the compound according to claims 1 or 4 as an active ingredient and a veterinarily acceptable excipient.

8-9. (canceled)

10. (currently amended) Intermediates for the manufacture of compound of formula I according to claim 1 having the Formulae IB, IC and IG:

wherein R1 is C1-C4 branched or straight chain alkyl;

R2 is H;

R3 is H; C1-C6 branched or straight chain alkyl; C2-C4 alkenyl; or C2-C4 alkynyl;

R4 is H; C1-C6 branched or straight chain alkyl; or C2-C4 alkenyl;

R^5 is $SO_2NR^{10}R^{11}$;

R⁸ is H; or C₁-C₆ branched or straight chain alkyl;

R¹⁰ and R¹¹ are each independently H; C₁-C₁₂ branched or straight chain alkyl; C₁-C₃ halogenated branched or straight chain alkyl; C₂-C₆ alkenyl; C₂-C₆ alkynyl or C₃-C₆ cycloalkyl; or R¹⁰ and R¹¹ together with their attached nitrogen atom form a pyrrolinyl, pyrrolinone group, piperidyl, morpholinyl, or 4-N(R⁸)-piperazinyl; the said groups

optionally substituted with OH, CN, CO₂R⁸, C₁-C₄ branched or straight chain alkyl, or C₁-C₃ alkoxyl.

- 11. (New) The compound according to claim 1, wherein R^1 is $C_1\text{-}C_4$ branched or straight chain alkyl; R^2 is H; R^3 is $C_1\text{-}C_6$ branched or straight chain alkyl; R^4 is $C_1\text{-}C_6$ branched or straight chain alkyl; R^5 is $SO_2NR^{10}R^{11}$; R^8 is H; $C_1\text{-}C_6$ branched or straight chain alkyl; and R^{10} and R^{11} are each independently H; $C_1\text{-}C_1$ branched or straight chain alkyl; $C_1\text{-}C_3$ halogenated branched or straight chain alkyl; $C_2\text{-}C_6$ alkenyl; $C_2\text{-}C_6$ alkynyl or $C_3\text{-}C_6$ cycloalkyl; or R^{10} and R^{11} taken together to form a pyrrolinyl, pyrrolinone group, piperidyl, morpholinyl, $4\text{-}N(R^8)$ -piperazinyl; the said groups optionally substituted with $C_1\text{-}C_4$ branched or straight chain alkyl; or their pharmaceutically acceptable salts.
- 12. (New) The compound according to claim 11 which is 2-[2-ethoxyl-5-(4-ethylpiperazinyl-1-sulfonyl)phenyl]-5-methyl-7-n-propyl-3,7-dihydropyrrolo[2,3-d]pyrimidin -4-one, the mono-hydrochloride, dihydrochloride and other possible hydrochloride thereof.